

LISTE DE SEQUENCES

<110> UNIVERSITE JOSEPH FOURIER

<120> Séquence d'ADNc transcrivant un ARNm codant pour
l'oxydase terminale associée à la biosynthèse des
caroténoides et utilisations

<130> OTBC

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<150> FR9813283

<151> 1998-10-20

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<170> PatentIn Ver. 2.1

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SEQUENCE LISTING

<110> CAROL, Pierre

KUNTZ, Marcel

MACHE, Regis

<120> cDNA SEQUENCE TRANSCRIBING AN mRNA ENCODING THE TERMINAL OXIDASE
ASSOCIATED WITH CAROTENOID BIOSYNTHESIS, AND USES THEREOF

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<141> 2001-06-15

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Pro Gly Met Val Gly Gly Met Leu Leu His Leu Arg Ser Leu Arg Lys
 35 40 45

Phe Gln Gln Ser Gly Gly Trp Ile Lys Ala Leu Leu Glu Glu Ala Glu
 50 55 60

Asn Glu Arg Met His Leu Met Thr Met Val Glu Leu Val Lys Pro Lys
 65 70 75 80

Trp Tyr Glu Arg Leu Leu Val Leu Ala Val Gln Gly Val Phe Phe Asn
 85 90 95

Ala Phe Phe Val Leu Tyr Ile Leu Ser Pro Lys Val Ala His Arg Ile
 100 105 110

Val Gly Tyr Leu Glu Glu Glu Ala Ile His Ser Tyr Thr Glu Tyr Leu
 115 120 125

Lys Asp Leu Glu Ser Gly Ala Ile Glu Asn Val Pro Ala Pro Ala Ile
 130 135 140

Ala Ile Asp Tyr Trp Arg Leu Pro Lys Asp Ala Arg Leu Lys Asp Val
 145 150 155 160

Ile Thr Val Ile Arg Ala Asp Glu Ala His His

165

170

<210> 9

<211> 366

<212> PRT

<213> tomato

<400> 9

Met Ala Ile Ser Ile Ser Ala Met Ser Phe Gly Thr Ser Val Ser Ser

1

5

10

15

Tyr Ser Cys Phe Arg Ala Arg Ser Phe Glu Lys Ser Ser Val Leu Cys

20

25

30

Asn Ser Gln Asn Pro Cys Arg Phe Asn Ser Val Phe Pro Ile Arg Lys

35

40

45

Ser Asp Gly Ala Ser Arg Cys Ser Val Ser Arg Lys Ser Cys Arg Val

50

55

60

Arg Ala Thr Leu Leu Gln Glu Asn Glu Glu Glu Val Val Val Glu Lys

65

70

75

80

Ser Phe Ala Pro Lys Ser Phe Pro Asp Asn Val Gly Gly Gly Ser Asn

85

90

95

Gly Lys Pro Pro Asp Asp Ser Ser Ser Asn Gly Leu Glu Lys Trp Val
 100 105 110

Ile Lys Leu Glu Gln Ser Val Asn Ile Leu Leu Thr Asp Ser Val Ile
 115 120 125

Lys Ile Leu Asp Thr Leu Tyr His Asn Arg Asn Tyr Ala Arg Phe Phe
 130 135 140

Val Leu Glu Thr Ile Ala Arg Val Pro Tyr Phe Ala Phe Ile Ser Val
 145 150 155 160

Leu His Met Tyr Glu Ser Phe Gly Trp Trp Arg Arg Ala Asp Tyr Met
 165 170 175

Lys Val His Phe Ala Glu Ser Trp Asn Glu Met His His Leu Leu Ile
 180 185 190

Met Glu Glu Leu Gly Gly Asn Ala Trp Trp Phe Asp Arg Phe Leu Ala
 195 200 205

Gln His Ile Ala Ile Phe Tyr Tyr Phe Met Thr Val Leu Met Tyr Ala
 210 215 220

Leu Ser Pro Arg Met Ala Tyr His Phe Ser Glu Cys Val Glu Ser His
 225 230 235 240

Ala Tyr Glu Thr Tyr Asp Lys Phe Ile Lys Asp Gln Gly Glu Glu Leu
 245 250 255

Lys Asn Leu Pro Ala Pro Lys Ile Ala Val Asp Tyr Tyr Thr Gly Gly
260 265 270

Asp Leu Tyr Leu Phe Asp Glu Phe Gln Thr Ser Arg Glu Pro Asn Thr
275 280 285

Arg Arg Pro Lys Ile Asp Asn Leu Tyr Asp Val Phe Met Asn Ile Arg
290 295 300

Asp Asp Glu Ala Glu His Cys Lys Thr Met Lys Ala Cys Gln Thr His
305 310 315 320

Gly Ser Leu Arg Ser Pro His Thr Asp Pro Cys Asp Asp Ser Glu Asp
325 330 335

Asp Thr Gly Cys Ser Val Pro Gln Ala Asp Cys Ile Gly Ile Val Asp
340 345 350

Cys Ile Lys Lys Ser Val Thr Asp Thr Gln Val Thr Lys Arg
355 360 365

<210> 10

<211> 357

<212> PRT

<213> capsicum

<400> 10

Met Ala Ile Ser Ile Ser Ala Met Ser Phe Arg Thr Ser Val Ser Ser
1 5 10 15

Ser Tyr Ser Ala Phe Leu Cys Asn Ser Lys Asn Pro Phe Cys Leu Asn
20 25 30

Ser Leu Phe Ser Leu Arg Asn Ser His Arg Thr Phe Gln Pro Ser Leu
35 40 45

Ser Arg Lys Ser Ser Arg Val Arg Ala Thr Leu Leu Lys Glu Asn Glu
50 55 60

Glu Glu Val Val Val Glu Lys Ser Phe Ala Pro Lys Ser Phe Pro Gly
65 70 75 80

Asn Val Gly Gly Gly Asn Asn Gly Glu Pro Pro Asp Asn Ser Ser Ser
85 90 95

Asn Gly Leu Glu Lys Trp Val Ile Lys Ile Glu Gln Ser Val Asn Ile
100 105 110

Phe Leu Thr Asp Ser Val Ile Lys Ile Leu Asp Thr Leu Tyr His Asp
115 120 125

Arg His Tyr Ala Arg Phe Phe Val Leu Glu Thr Ile Ala Arg Val Pro
130 135 140

Tyr Phe Ala Phe Ile Ser Val Leu His Leu Tyr Glu Ser Phe Gly Trp
145 150 155 160

Trp Arg Arg Ala Asp Tyr Leu Lys Val His Phe Ala Glu Ser Trp Asn
165 170 175

Glu Met His His Leu Leu Ile Met Glu Glu Leu Gly Gly Asn Ala Trp
180 185 190

Trp Phe Asp Arg Phe Leu Ala Gln His Ile Ala Val Phe Tyr Tyr Phe
195 200 205

Met Thr Val Ser Met Tyr Ala Leu Ser Pro Arg Met Ala Tyr His Phe
210 215 220

Ser Glu Cys Val Glu His His Ala Tyr Glu Thr Tyr Asp Lys Phe Ile
225 230 235 240

Lys Asp Gln Glu Ala Glu Leu Lys Lys Leu Pro Ala Pro Lys Ile Ala
245 250 255

Val Ser Tyr Tyr Thr Gly Gly Asp Leu Tyr Leu Phe Asp Glu Phe Gln
260 265 270

Thr Ser Arg Glu Pro Asn Thr Arg Arg Pro Lys Ile Asp Asn Leu Tyr
275 280 285

Asp Val Phe Met Asn Ile Arg Asp Asp Glu Ala Glu His Cys Lys Thr
290 295 300

Met Lys Ala Cys Gln Thr His Gly Ser Leu Arg Ser Pro His Thr Asn
305 310 315 320

Pro Cys Asp Glu Ser Glu Asp Asp Pro Gly Cys Ser Val Pro Gln Ala

325

330

335

Asp Cys Val Gly Ile Val Asp Cys Ile Thr Lys Ser Val Ala Asp Pro

340

345

350

Asn Val Gly Arg Arg

355

Pro Cys Asp Glu Ser Glu Asp Asp Pro Gly Cys Ser Val Pro Gln Ala
Asp Cys Val Gly Ile Val Asp Cys Ile Thr Lys Ser Val Ala Asp Pro
Asn Val Gly Arg Arg